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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/617,575

07/11/2003

Jerry Wu

3544

25859

7590

03/02/2004

WEI TE CHUNG

FOXCONN INTERNATIONAL, INC.

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EXAMINER

LEON, EDWIN A

ART UNIT

PAPER NUMBER

2833

DATE MAILED: 03/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	10/617,575		WU, JERRY	
	<b>Examiner</b>		<b>Art Unit</b>	
	Edwin A. León		2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7, 8 and 10-18 is/are rejected.
- 7) ☒ Claim(s) 6 and 9 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/11/03</u> . | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 7-8 and 10-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohsumi (U.S. Patent No. 5,664,326) in view of Pelozza (U.S. Patent No. 5,362,260). With regard to Claims 1, 4-5, 7-8, 12-13, 16-18, Ohsumi discloses a cable assembly comprising: an insulating housing (A) defining a cavity (1); a contact (B) received in the cavity (1) of the housing (A), the contact (B) comprising an intermediate portion (5), a central contact beam (8) extending from one end of the intermediate portion (5), and a tail portion (B2) extending from an opposite end of the intermediate portion (5); and a cable (W) terminated to the tail portion (B2) of corresponding contact (B), the intermediate portion (5) having a retention device (lower protrusion shown in Fig. 1) thereon for engagement within a passageway (Fig. 1) of the housing (A). See Figs. 1-6.

However, Ohsumi doesn't show the housing having a plurality of cavities receiving a plurality of cables and contacts having pair of side contact beams extending from two opposite sides of the intermediate portion, the side contact beams are located

between the first and the second curved portions of the central contact beam along a longitudinal direction of the contact, the side contact beams comprise a pair of vertical arms located at opposite sides of the first spring arm and a pair of resilient side arms extending rearwardly from the vertical arms and having connecting portions extending toward each other.

Peloza discloses a similar connector assembly (10, 12) having a housing (12) having a plurality of cavities (14) receiving a plurality of cables (W) and contacts (10) having a pair of side contact beams (40) extending from two opposite sides of an intermediate portion (28), the side contact beams (40) comprise a pair of vertical arms (44, 46) located at opposite sides and a pair of resilient side arms (36) extending rearwardly from the vertical arms (44, 46) and having connecting portions (Fig. 2) extending toward each other. See Figs. 1-6.

Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the assembly of Ohsumi by including a pair of side contact beams extending from two opposite sides of an intermediate portion, the side contact beams comprise a pair of vertical arms located at opposite sides and a pair of resilient side arms extending rearwardly from the vertical arms and having connecting portions extending toward each other as taught in Peloza in order to provide a more effective and resilient engagement between the assembly and a mating male connector.

With regard to Claim 2, Ohsumi discloses the central contact beam (8) comprising a first spring arm (upper part of 8) extending upwardly and rearwardly from the intermediate portion (5) and a second spring arm (lower part of 8) extending

forwardly and downwardly from the first spring arm (upper part of 8) and having a free end (distal free end of 8) for abutting against the intermediate portion (5). See Figs. 1-6.

With regard to Claim 3, Ohsumi discloses the first spring arm (upper part of 8) having a first curved portion (front curve that attaches 8 with 5) connecting with the one end of the intermediate portion (5) and a second curved portion (back curve of 8) connecting with the second spring arm (lower part of 8) for contacting with a complementary contact. See Figs. 1-6.

With regard to Claim 8, Ohsumi discloses the housing (A) defines a pair of slits (located in the distal end of 4, where the lower protrusion of 5 is received) communicating with the cavity (1), the slits (located in the distal end of 4, where the lower protrusion of 5 is received) receiving opposite side edges (9, lower protrusion of 5) of the intermediate portion (5) therein. See Figs. 1-6.

With regard to Claim 10, Ohsumi discloses the cable (W) including an inner conductive core (shown in Fig. 1) and an outer insulator (shown in Fig. 1) surrounding the inner conductive core (shown in Fig. 1), the cable (W) having an exposed conductive core (shown in Fig. 1) at one end thereof, and wherein the tail portion (B2) comprises two pairs of gripping wings (located in B2) respectively crimped onto the exposed conductive core (shown in Fig. 1) and the insulator (shown in Fig. 1). See Figs. 1-6.

With regard to Claim 11, Ohsumi discloses the housing (A) if formed with a plurality of latching bosses (3, 4) on a top thereof for being received in a corresponding latching slot (9) of a complementary connector (B). See Figs. 1-6.

With regard to Claim 14, Ohsumi discloses the central contact beam (8) comprises a first spring arm (upper part of 8) extending upwardly and rearwardly from the intermediate portion (5) and a second spring arm (lower part of 8) extending forwardly and downwardly from the first spring arm (upper part of 8) and having a free end (distal end of 8) to abut against the intermediate portion (5). See Figs. 1-6.

With regard to Claim 15, Ohsumi discloses the first spring arm (upper part of 8) has a first curved portion (front curve that attaches 8 with 5) connecting with the one end of the intermediate portion (5) and a second curved portion (back curve of 8) connecting with the second spring arm (lower part of 8). See Figs. 1-6.

### ***Allowable Subject Matter***

3. Claims 6 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The references fail to teach, disclose, or suggest, either alone or in combination, the second curved portion of the first spring arm extending rearwardly beyond the connecting portions of the resilient side arms and the housing defining a slot extending through a front face while not extending through a bottom face thereof, the slot communicating with the cavity, and the intermediate portion of the contact comprises a tab received in the slot and in combination with the rest of the limitations of the base and intermediate claims.

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Childs (U.S. Patent No. 5,681,190), Kojima (U.S. Patent No. 6,375,501), Yamaguchi (U.S. Patent No. 5,993,268) and Lapraik et al. (U.S. Patent No. 5,295,871) disclose connector assemblies having beams and tail portions.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (571) 272-2008. The examiner can normally be reached on Monday - Friday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800, extension 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edwin A. Leon  
AU 2833  
EAL  
February 22, 2004

